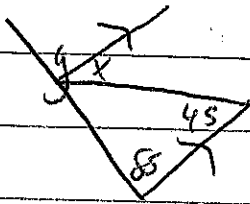


201 3.2 HW

p 158 27-32, 35, 36, 37

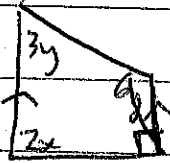
27.



$$x = 45 \text{ alt. int}$$

$$y = 85 \text{ corr}$$

28.



$$2x = 90 \text{ s. side}$$

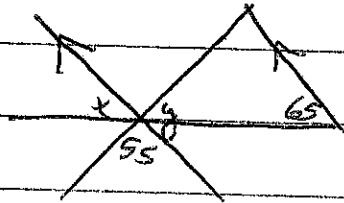
$$x = 45$$

$$3y + 6y = 180 \text{ s-side}$$

$$9y$$

$$y = 20$$

29.



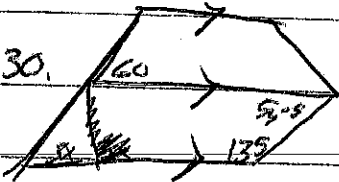
$$x = 65 \text{ corr}$$

$$y + 65 + 55 = 180$$

$$120$$

$$y = 60$$

30.



$$5y - 5 + 135 = 180 \text{ s-side}$$

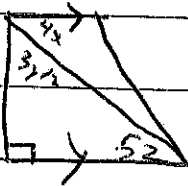
$$5y = 50$$

$$y = 10$$

$$3x = 20$$

$$x = 20 \text{ corr}$$

31.



$$4x = 52$$

$$x = 13 \text{ alt int}$$

$$3y + 2 + 52 = 90$$

$$3y = 36$$

$$y = 12$$

32.



$$5x + 14x - 10 = 180 \text{ side}$$

$$19x = 190$$

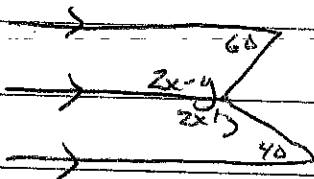
$$x = 10$$

$$2y + 130 = 180 \text{ side}$$

$$2y = 50$$

$$y = 25$$

35.



$$2x - y + 60 = 180$$

$$2x - y = 120$$

$$y = 10$$

$$2x + y + 40 = 180$$

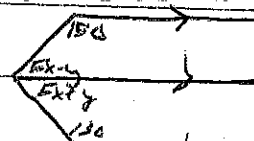
$$2x + y = 140$$

$$2x - y = 120$$

$$4x = 260$$

$$x = 65$$

36



$$5x - y + 150 = 180$$

$$5x - y = 30$$

$$5x + y + 130 = 180$$

$$5x + y = 50$$

$$5x - y = 30$$

$$10x = 80$$

$$x = 8$$

$$y = 10$$

37

G: $p \parallel q$ P: $\angle 1 \cong \angle 2$

Statements

Reasons

① $p \parallel q$

① Given

② $\angle 1 \cong \angle 3$ ② Corr. \angle s Post③ $\angle 3 \cong \angle 2$ ③ Vert. \angle s \cong ④ $\angle 1 \cong \angle 2$

④ Transitive

